

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/909,556

DATE: 08/02/2001

TIME: 10:40:23

Input Set : A:\LeA34772.app

Output Set: N:\CRF3\08022001\I909556.raw

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3 <110> APPLICANT: Bayer Aktiengesellschaft
 5 <120> TITLE OF INVENTION: Ligand binding domains of Ultraspiracle (USP) proteins
 7 <130> FILE REFERENCE: Le A 34 772
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/909,556
 C--> 10 <141> CURRENT FILING DATE: 2001-07-20
 12 <150> PRIOR APPLICATION NUMBER: DE 100 36 461.6
 13 <151> PRIOR FILING DATE: 2000-07-25
 15 <160> NUMBER OF SEQ ID NOS: 2
 17 <170> SOFTWARE: PatentIn Ver. 2.1
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 262
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Heliothis virescens
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 28 Ala Asp Pro Ser Glu Glu Phe Gln Phe Leu Arg Val Gly Pro Asp Ser
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 31 Asn Val Pro Pro Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile
 32 35 40 45
 34 Gly Asn Lys Gln Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro
 35 50 55 60
 37 His Phe Ser Gln Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly
 38 65 70 75 80
 40 Ser Trp Asn Glu Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu
 41 85 90 95
 43 Phe Leu Thr Glu Glu Arg Asp Gly Val Asp Gly Thr Gly Asn Arg Thr
 44 100 105 110
 46 Thr Ser Pro Pro Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His
 47 115 120 125
 49 Arg Asn Ser Ala Leu Gln Ala Gly Val Gly Gln Ile Phe Asp Arg Val
 50 130 135 140
 52 Leu Ser Glu Leu Ser Leu Lys Met Arg Thr Leu Arg Val Asp Gln Ala
 53 145 150 155 160
 55 Glu Tyr Val Ala Leu Lys Ala Ile Ile Leu Leu Asn Pro Asp Val Lys
 56 165 170 175
 58 Gly Leu Lys Asn Arg Gln Glu Val Glu Val Leu Arg Glu Lys Met Phe
 59 180 185 190
 61 Leu Cys Leu Asp Glu Tyr Cys Arg Arg Ser Arg Ser Ser Glu Glu Gly
 62 195 200 205
 64 Arg Phe Ala Ala Leu Leu Leu Arg Leu Pro Ala Leu Arg Ser Ile Ser
 65 210 215 220
 67 Leu Lys Ser Phe Glu His Leu Phe Phe Phe His Leu Val Ala Asp Thr
 68 225 230 235 240
 70 Ser Ile Ala Gly Tyr Ile Arg Asp Ala Leu Arg Asn His Ala Pro Pro
 71 245 250 255
 73 Ile Asp Thr Asn Met Met

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78 <210> SEQ ID NO: 2
79 <211> LENGTH: 466
80 <212> TYPE: PRT
81 <213> ORGANISM: Heliothis virescens
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87 Ile Asn Trp Ala Arg Pro Leu Pro Pro Gly Gln Gln Gln Gln Pro Met
88 20 25 30
90 Thr Pro Thr Ser Pro Gly Asn Met Leu Gln Pro Met Ala Thr Pro Ser
91 35 40 45
93 Asn Leu Pro Thr Val Asp Cys Ser Leu Asp Ile Gln Trp Leu Asn Leu
94 50 55 60
96 Glu Gly Gly Phe Met Ser Pro Met Ser Pro Pro Glu Met Lys Pro Asp
97 65 70 75 80
99 Thr Ala Met Leu Asp Gly Leu Arg Asp Asp Ser Thr Pro Pro Pro Ala
100 85 90 95
102 Phe Lys Asn Tyr Pro Pro Asn His Pro Leu Ser Gly Ser Lys His Leu
103 100 105 110
105 Cys Ser Ile Cys Gly Asp Arg Ala Ser Gly Lys His Tyr Gly Val Tyr
106 115 120 125
108 Ser Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val Arg Lys Asp
109 130 135 140
111 Leu Thr Tyr Ala Cys Arg Glu Glu Arg Asn Cys Ile Ile Asp Lys Arg
112 145 150 155 160
114 Gln Arg Asn Arg Cys Gln Tyr Cys Arg Tyr Gln Lys Cys Leu Ala Cys
115 165 170 175
117 Gly Met Lys Arg Glu Ala Val Gln Glu Glu Arg Gln Arg Ala Ala Arg
118 180 185 190
120 Gly Thr Glu Asp Ala His Pro Ser Ser Ser Val Gln Val Gln Glu Leu
121 195 200 205
123 Ser Ile Glu Arg Leu Leu Glu Met Glu Ser Leu Val Ala Asp Pro Ser
124 210 215 220
126 Glu Glu Phe Gln Phe Leu Arg Val Gly Pro Asp Ser Asn Val Pro Pro
127 225 230 235 240
129 Lys Phe Arg Ala Pro Val Ser Ser Leu Cys Gln Ile Gly Asn Lys Gln
130 245 250 255
132 Ile Ala Ala Leu Val Val Trp Ala Arg Asp Ile Pro His Phe Ser Gln
133 260 265 270
135 Leu Glu Met Glu Asp Gln Ile Leu Leu Ile Lys Gly Ser Trp Asn Glu
136 275 280 285
138 Leu Leu Leu Phe Ala Ile Ala Trp Arg Ser Met Glu Phe Leu Thr Glu
139 290 295 300
141 Glu Arg Asp Gly Val Asp Gly Thr Gly Asn Arg Thr Thr Ser Pro Pro
142 305 310 315 320
144 Gln Leu Met Cys Leu Met Pro Gly Met Thr Leu His Arg Asn Ser Ala
145 325 330 335
147 Leu Gln Ala Gly Val Gly Gln Ile Phe Asp Arg Val Leu Ser Glu Leu

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150	Ser	Leu	Lys	Met	Arg	Thr	Leu	Arg	Val	Asp	Gln	Ala	Glu	Tyr	Val	Ala
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153	Leu	Lys	Ala	Ile	Ile	Leu	Leu	Asn	Pro	Asp	Val	Lys	Gly	Leu	Lys	Asn
154			370					375					380			
156	Arg	Gln	Glu	Val	Glu	Val	Leu	Arg	Glu	Lys	Met	Phe	Leu	Cys	Leu	Asp
157	385						390					395				400
159	Glu	Tyr	Cys	Arg	Arg	Ser	Arg	Ser	Ser	Glu	Glu	Gly	Arg	Phe	Ala	Ala
160					405					410					415	
162	Leu	Leu	Leu	Arg	Leu	Pro	Ala	Leu	Arg	Ser	Ile	Ser	Leu	Lys	Ser	Phe
163				420						425				430		
165	Glu	His	Leu	Phe	Phe	Phe	His	Leu	Val	Ala	Asp	Thr	Ser	Ile	Ala	Gly
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168	Tyr	Ile	Arg	Asp	Ala	Leu	Arg	Asn	His	Ala	Pro	Pro	Ile	Asp	Thr	Asn
169		450					455						460			
171	Met	Met														
172	465															

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/909,556

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TIME: 10:40:24

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Output Set: N:\CRF3\08022001\I909556.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date